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THE ESTIMATED COST FOR THIS REQUEST IS 11.28 U.S. DOLLARS

DO YOU WANT TO CONTINUE WITH THIS REQUEST? (Y)/N:y

L6 ANSWER 1 OF 2 CAPLUS COPYRIGHT 2009 ACS on STN

ACCESSION NUMBER: 2007:15323 CAPLUS

DOCUMENT NUMBER: 146:414325

TITLE: Effects of canthin-6-one alkaloids from *Zanthoxylum chiloperone* on *Trypanosoma cruzi*-infected mice

AUTHOR(S): Ferreira, Maria Elena; Nakayama, Hector; Rojas de Arias, Antonieta; Schinini, Alicia; de Bilbao, Ninfa Vera; Serna, Elva; Lagoutte, Delphine; Soriano-Agaton, Flor; Poupon, Erwan; Hocquemiller, Reynald; Fournet, Alain

CORPORATE SOURCE: Department of Tropical Medicine, Casilla de Correo, Instituto de Investigaciones en Ciencias de la Salud Asuncion, Universidad Nacional de Asuncion, 2511, Parag.

SOURCE: Journal of Ethnopharmacology (2007), 109(2), 258-263
CODEN: JOETD7; ISSN: 0378-8741

PUBLISHER: Elsevier B.V.

DOCUMENT TYPE: Journal

LANGUAGE: English

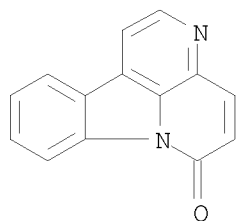
AB Canthin-6-one (1), isolated from *Zanthoxylum chiloperone* (Rutaceae), possesses a broad spectrum of antifungal and leishmanicidal activities. In this study, we have examined the antiparasitic effects of canthin-6-one (1), 5-methoxycanthin-6-one (2), canthin-6-one N-oxide (3), as well as that of the total alkaloids of *Zanthoxylum chiloperone* stem bark, in Balb/c mice infected either acutely or chronically with *Trypanosoma cruzi*. The compds. were administered orally or s.c. at 5 mg/kg/day for 2 wk, whereas the alkaloidal extract was given at 50 mg/kg/day for 2 wk. The antiparasitic activity was compared with that of benznidazole given at 50 mg/kg/day for 2 wk. In the case of acute infection, parasitemia was significantly reduced following oral treatment with canthin-6-one (1). Moreover, the total alkaloids of *Zanthoxylum chiloperone* stem bark led to high levels of parasitol. clearance. Seventy days post-infection, the serol. response in the acute model was significantly different between oral canthin-6-one (1) and benznidazole-treated mice. Chronic model of the disease showed that both canthin-6-one (1) and the alkaloidal extract at the above dosage induced 80-100% animal survival compared to untreated controls. These results indicate that canthin-6-one (1) exhibits trypanocidal activity in vivo in the mouse model of acute or chronic infection. This is the first demonstration of anti-*Trypanosoma cruzi* activity for a member of this chemical group (canthinones). Considering the very low toxicity of canthin-6-one (1), our results suggest that long-term oral treatment with this natural product could prove advantageous compared to the current chemotherapy of Chagas disease.

IT 479-43-6, Canthin-6-one 15071-56-4,
5-Methoxycanthin-6-one 60755-87-5, Canthin-6-one N-oxide
RL: NPO (Natural product occurrence); PAC (Pharmacological activity); THU (Therapeutic use); BIOL (Biological study); OCCU (Occurrence); USES (Uses)
(effects of canthin-6-one alkaloids from *Zanthoxylum chiloperone* on *Trypanosoma cruzi*-infected mice)

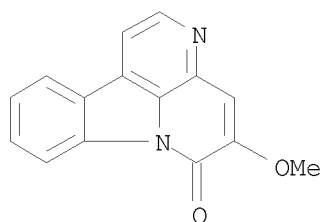
RN 479-43-6 CAPLUS

CN 6H-Indolo[3,2,1-de][1,5]naphthyridin-6-one (CA INDEX NAME)

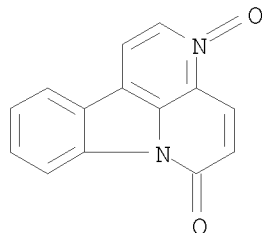
10/535,430



RN 15071-56-4 CAPLUS
CN 6H-Indolo[3,2,1-de][1,5]naphthyridin-6-one, 5-methoxy- (CA INDEX NAME)



RN 60755-87-5 CAPLUS
CN 6H-Indolo[3,2,1-de][1,5]naphthyridin-6-one, 3-oxide (CA INDEX NAME)



OS.CITING REF COUNT: 7 THERE ARE 7 CAPLUS RECORDS THAT CITE THIS RECORD (7 CITINGS)

REFERENCE COUNT: 19 THERE ARE 19 CITED REFERENCES AVAILABLE FOR THIS RECORD. ALL CITATIONS AVAILABLE IN THE RE FORMAT

L6 ANSWER 2 OF 2 CAPLUS COPYRIGHT 2009 ACS on STN

ACCESSION NUMBER: 2004:432755 CAPLUS

DOCUMENT NUMBER: 140:412295

TITLE: Use of canthin-6-one and plant extracts containing it and its derivatives for the treatment of the Chagas' disease

INVENTOR(S): Ferreira, Marie Elena; Fournet, Alain; Rojas De Arias, Antonieta; Hocquemiller, Reynald

PATENT ASSIGNEE(S): Institut de Recherche pour le developpement I.R.D., Fr.; Universite Nationale d'Ascuncion

SOURCE: Fr. Demande, 18 pp.
CODEN: FRXXBL

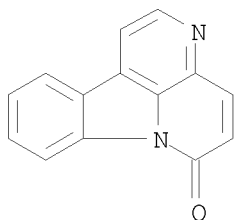
DOCUMENT TYPE: Patent

LANGUAGE: French

FAMILY ACC. NUM. COUNT: 2

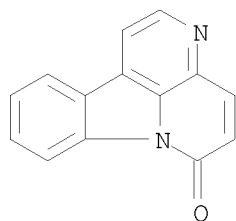
PATENT INFORMATION:

PATENT NO.	KIND	DATE	APPLICATION NO.	DATE
FR 2847474	A1	20040528	FR 2002-14729	20021125
FR 2847474	B1	20060324		
WO 2004050092	A1	20040617	WO 2003-FR3459	20031124
W: AE, AG, AL, AM, AT, AU, AZ, BA, BB, BG, BR, BY, BZ, CA, CH, CN, CO, CR, CU, CZ, DE, DK, DM, DZ, EC, EE, EG, ES, FI, GB, GD, GE, GH, GM, HR, HU, ID, IL, IN, IS, JP, KE, KG, KP, KR, KZ, LC, LK, LR, LS, LT, LU, LV, MA, MD, MG, MK, MN, MW, MX, MZ, NI, NO, NZ, OM, PG, PH, PL, PT, RO, RU, SC, SD, SE, SG, SK, SL, SY, TJ, TM, TN, TR, TT, TZ, UA, UG, US, UZ, VC, VN, YU, ZA, ZM, ZW				
RW: BW, GH, GM, KE, LS, MW, MZ, SD, SL, SZ, TZ, UG, ZM, ZW, AM, AZ, BY, KG, KZ, MD, RU, TJ, TM, AT, BE, BG, CH, CY, CZ, DE, DK, EE, ES, FI, FR, GB, GR, HU, IE, IT, LU, MC, NL, PT, RO, SE, SI, SK, TR, BF, BJ, CF, CG, CI, CM, GA, GN, GQ, GW, ML, MR, NE, SN, TD, TG				
AU 2003294057	A1	20040623	AU 2003-294057	20031124
EP 1569642	A1	20050907	EP 2003-789474	20031124
R: AT, BE, CH, DE, DK, ES, FR, GB, GR, IT, LI, LU, NL, SE, MC, PT, IE, SI, LT, LV, FI, RO, MK, CY, AL, TR, BG, CZ, EE, HU, SK				
BR 2003016441	A	20051011	BR 2003-16441	20031124
US 20070149461	A1	20070628	US 2006-535430	20060222
PRIORITY APPLN. INFO.:			FR 2002-14729	A 20021125
			WO 2003-FR3459	W 20031124
OTHER SOURCE(S): MARPAT 140:412295				
AB Use of plant exts. containing canthin-6-one, in the form of an extract of Zanthoxylum chiloperone angustifolium, and some of its derivs. for the manufacture of a drug intended for the treatment of trypanosomiasis, in particular treatment of Chagas' disease, is disclosed. Canthin-6-one and 5-methoxycanthin-6-one were extracted from Z. chiloperone. Efficacy of canthin-6-one in the treatment of guinea pigs infected. with Trypanosoma cruzi is shown.				
IT 479-43-6, Canthin-6-one 479-43-6D, Canthin-6-one, derivs. 15071-56-4, 5-Methoxy-canthin-6-one				
RL: NPO (Natural product occurrence); PAC (Pharmacological activity); THU (Therapeutic use); BIOL (Biological study); OCCU (Occurrence); USES (Uses) (use of canthinone and plant exts. containing it and its derivs. for treatment of Chagas' disease)				
RN 479-43-6 CAPLUS				
CN 6H-Indolo[3,2,1-de][1,5]naphthyridin-6-one (CA INDEX NAME)				

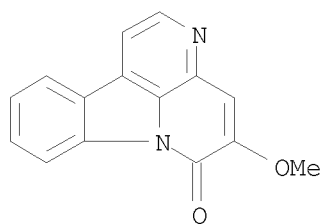


RN 479-43-6 CAPLUS
 CN 6H-Indolo[3,2,1-de][1,5]naphthyridin-6-one (CA INDEX NAME)

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RN 15071-56-4 CAPLUS
CN 6H-Indolo[3,2,1-de][1,5]naphthyridin-6-one, 5-methoxy- (CA INDEX NAME)



OS.CITING REF COUNT: 2 THERE ARE 2 CAPLUS RECORDS THAT CITE THIS RECORD
(2 CITINGS)
REFERENCE COUNT: 7 THERE ARE 7 CITED REFERENCES AVAILABLE FOR THIS
RECORD. ALL CITATIONS AVAILABLE IN THE RE FORMAT

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(FILE 'HOME' ENTERED AT 11:16:58 ON 13 NOV 2009)

FILE 'REGISTRY' ENTERED AT 11:17:33 ON 13 NOV 2009

L1 STRUCTURE UPLOADED

L2 9 S L1

L3 131 S L1 FULL

FILE 'CAPLUS' ENTERED AT 11:18:06 ON 13 NOV 2009

L4 269 S L3

L5 5070 S TRYPANOSOMIASIS OR CHAGAS

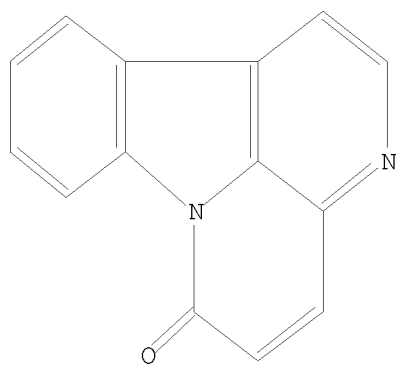
L6 2 S L4 AND L5

=> d l1

L1 HAS NO ANSWERS

L1 STR

10/535,430



Structure attributes must be viewed using STN Express query preparation.

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